

Date: Mon, 24 May 93 04:30:12 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #631
To: Info-Hams

Info-Hams Digest Mon, 24 May 93 Volume 93 : Issue 631

Today's Topics:

450MHz mobile radio and engine management systems...
6M activity in UA1
how I compiled the C version of NEC-2 (correction)
Quagi antenna polarization question
RFI from ZyXEL modem to 2way radio (2 msgs)
Surplus oscilloscope SOLARTRON CD 1400

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 24 May 93 10:37:11 GMT
From: news-mail-gateway@ucsd.edu
Subject: 450MHz mobile radio and engine management systems...
To: info-hams@ucsd.edu

The following is copied from 'Mobile Europe' magazine [a mobile- and
business-radio trade journal]

'NOT SO MOBILE MOBILE'

handportable cellphone users in Sweden better not use their phones in the
new Opel Corsa car unless they want to grind to a shuddering halt in
the process!

[f.y.i. the Opel Corsa is a sub-compact 'city car' recently the subject of
a restyling exercise]

Problems with radio interference apparently affects the engine's electronic fuel injection management system. Haak Engstrom, an executive with GM Nordic (which imports Opel cars to Sweden) says the company has no doubts over what has caused the problem, adding 'We have informed the German factory and expect that they will solve this problem as soon as possible'. Engstrom says Opel Omega cars have experienced similar problems, yet the popular Opel Astra is not affected.

[f.y.i the Opel Omega is similar to a Chevy Citation]

NMT-450 system cellphones cause the Corsa's engine to cut out once a call is initiated, bringing the car to a complete stop. A spokesman for Motorola Cellular says the car manufacturers need to amend their electrical subsystems, and that cellphones are not responsible for the problem, saying 'Responsibility for the problem rests with the car manufacturers. All phones are type-approved; it is up to the manufacturers to make sure that their engines are not disturbed'. NMT-900 and GSM phones have not been found to cause problems for vehicle management systems.

<end of quote>

[f.y.i. NMT450 phones operate in the 450MHz band with an output of up to 5 watts; NMT-900 are 900MHz phones, while GSM works at over 1GHz].

I guess this same problem is likely to be of big interest to hams who like running high power 440MHz! Watch this space.

-Pete Lucas G6WBJ pjml@swmis.nsw.ac.uknsfnet-relay.ac.uk (Internet)
pjml@uk.ac.nsw.swmis (JANET)

Date: Sat, 22 May 1993 14:00:51 GMT
From: mcsun!news.funet.fi!funic!nntp.hut.fi!vipunen.hut.fi!jsi@uunet.uu.net
Subject: 6M activity in UA1
To: info-hams@ucsd.edu

If you missed UX1A on six last summer, here is your chance.

Members of UZ1AWT from St. Petersburg will activate UA1 again this summer as RU1A. They will operate from Primorsk in grid KP40. Equipment will be FT-726, PA and 5 el yagi. Operation will mostly commence on weekends in timeframe of June 5 - July 31. QSL via manager KC1WY.

73,
Jukka OH6DD Internet: jsi@vipunen.hut.fi

Date: 24 May 1993 06:47:44 GMT
From: olivea!inews!ilx018.intel.com!ilx049!dbraun@uunet.uu.net
Subject: how I compiled the C version of NEC-2 (correction)
To: info-hams@ucsd.edu

When I tried to compile the C version of NEC2 on an IBM RS6000,
I got several undefined functions:

.z_abs
.z_sqrt
.d_imag
.d_cnjg
.pow_dd
.d_lg10
.z_exp
.d_int

These are used in nec2.c, but not defined anywhere. Here are the files
I get off the nec2.in.tar file:

NEC2/
NEC2/nec2.c
NEC2/f2c.h
NEC2/secnds.c
NEC2/Makefile
NEC2/EX2
NEC2/README
NEC2/EX3
NEC2/fort.6
NEC2/atexit.c
NEC2/atexit.h
NEC2/EX4
NEC2/EX1
NEC2/EX5
NEC2/EX6
NEC2/TESTEX4
NEC2/EX7
NEC2/Notice.f2c
NEC2/fort.5
NEC2/nec2.f
NEC2/TESTEX7
NEC2/wref.c
NEC2/backspace.c
NEC2/close.c
NEC2/dolio.c
NEC2/fio.h

NEC2/fmt.h
NEC2/fp.h
NEC2/local.h
NEC2/endfile.c
NEC2/err.c
NEC2/fmt.c
NEC2/open.c
NEC2/rewind.c
NEC2/rsfe.c
NEC2/sfe.c
NEC2/sue.c
NEC2/uio.c
NEC2/util.c
NEC2/wsfe.c
NEC2/wsle.c
NEC2/lread.c
NEC2/lwrite.c
NEC2/rdfmt.c
NEC2/wrtfmt.c
NEC2/fmtlib.c
NEC2/s_stop.c
NEC2/at.c
NEC2/pow_di.c
NEC2/i_indx.c
NEC2/i_len.c
NEC2/s_cat.c
NEC2/s_cmp.c
NEC2/s_copy.c
NEC2/cabs.c
NEC2/sig_die.c
NEC2/lho.h
NEC2/main.c
NEC2/TESTEX1
NEC2/TESTEX2
NEC2/z_div.c
NEC2/TESTEX3
NEC2/TESTEX5
NEC2/TESTEX6

Is anything missing here? Could my copy of the tar file be damaged?
Are these procedures not part of f2c, and supposed to be part
of a normal (i.e. non-IBM) UNIX distribution?

BTW, I got one of the Fortran versions working on the RS6000,
so if anybody needs a RS6000 binary, let me know.

--

Doug Braun (N10WU)

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Haifa, Israel 31015

"There is no human problem which could not be solved if
people would simply do as I advise." -- Gore Vidal

Date: Mon, 24 May 1993 05:42:16 GMT
From: usc!howland.reston.ans.net!agate!news.ucdavis.edu!othello.ucdavis.edu!
ez006683@network.UCSD.EDU
Subject: Quagi antenna polarization question
To: info-hams@ucsd.edu

jackhill@jackatak.raider.net (Jack GF Hill) writes:
: ez006683@othello.ucdavis.edu (Daniel D. Todd) writes:
: > jdc3538@ulb.rit.edu (J.D. Cronin) writes:
: > :
: > : But do the directed elements have to "agree" with the loop's
: > : polarization? Are horizontal elements on a vertically-polarized
: > : antenna as effective as vertical elements on the same antenna?
: > :
: > Well since the directors and reflectors aren't fed with anything
: > it will make no difference.
:
: Gotta disagree with you here, Dan. The sole function of the director
: elements, in a parasitic array like the yagi, quad, or quagi, is to
: reduce the "spectral opening" on the signal...which is to say, to
: funnel or squeeze the signal into a narrower "beam". The gain comes
: from "adding" the signal that would not be directed in the plane of
: the antenna elements (a single element antenna emits signal in a
: concentric circle around the driven element, and in the plane of the
: element -- the directors simply parasitically "direct" the signal
: along the plane of the boom to which the elements are attached) --
: damn, this was real clear before I started typing! ;^)

Everything is always clearer before one has to explain it to another. :-)
:

: It follows, then, that parasitic elements 90 degrees (or any offset
: for that matter) off the plane of the driven element would not respond
: with the same efficiency as elements in the same plane. Think not?
: Well, take you monoband beam, drive the driven element in a horizontal
: plane and turn the reflector and director elements to the vertical
: plane...off the top of my head, the Front to Back would lose nearly
: 6dB, and the forward gain in the horizontal plane would be "spread"
: and less focused, and would also be almost 6dB.
:
: 'course, someone with a good antenna modeling program will be here in
: a minute to whack this into fine dust...
:
: So, J.D., unless you want to answer questions from curious people for
: the whole time you have your antenna up, orient your parasitic
: elements in the same plane as your driven element is fed... ;^)

Guess this is a misunderstanding on my part. I always thought
that a quagi was a multi-element quad that used yagi spacing and element
scaling. If this is the case and the parasitics are built so they don't
have a tuning stub then they would look the same every 90 degrees of
rotation. Obviously I have missed something here, I would be very
grateful if someone would explain what I missed. If I ever get a place
where I have enough room to play I will build some wire antennas and even
RTFM :^). Maybe I'll invest in the antenna handbook next month. Which is
best if I can only get one of the books right now?

Dan

--

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*-----*
* Daniel D. Todd      Packet: KC6UUD@WA6RDH.#nocal.ca.usa      *
*                    Internet: DDTODD@ucdavis.edu              *
*                    Snail Mail: 1750 Hanover #102             *
*                    Davis CA 95616                           *
*-----*
*      I do not speak for the University of California....    *
*      and it sure as hell doesn't speak for me!!            *
*-----*
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Date: Mon, 24 May 93 15:01:01 +1200
From: usc!wupost!waikato.ac.nz!comp.vuw.ac.nz!cc-server4.massey.ac.nz!acmebbs!
dogbox!dogbowl@network.UCSD.EDU
Subject: RFI from ZyXEL modem to 2way radio
To: info-hams@ucsd.edu

gottloeb@gumby.dsd.trw.com (Jeffrey R. Gottloeb) writes:

> ... I couldn't check the S model
> because I don't have one and couldn't guest the FCC reg. number.

IROTAI-18563-MD-E

Date: 24 May 93 06:39:14 GMT
From: usc!howland.reston.ans.net!darwin.sura.net!sgiblab!nec-gw!nec-tyo!wnoc-tyo-
news!scslwide!wsgw!headgw!atg2gw!atggw!cpggw!cpgagw!pascal@network.UCSD.EDU
Subject: RFI from ZyXEL modem to 2way radio
To: info-hams@ucsd.edu

In article <4Bc14B10w165w@dogbox.acme.gen.nz> dogbowl@dogbox.acme.gen.nz
(Kennelmeister) writes:

*
*Yes, the nickel spray is conductive. (0.5 ohms / sq metre)
*
Just a detail : if you're talking about resistivity, the unit
is not ohm / m^2, but ohm * m^2.

--
Pascal Goguey Sony Corporation (\$@GC9%7Z(J \$@8d7](J)
Communication Products Group Audio Products Div
Atsugi TEC, Japan

Date: 24 May 1993 06:59:46 GMT
From: olivea!rolfo@uunet.uu.net
Subject: Surplus oscilloscope SOLARTRON CD 1400
To: info-hams@ucsd.edu

I need information about oscilloscope model CD 1400 Solartron (surplus).

Thanks, in advances.

Claudio.

End of Info-Hams Digest V93 #631
